

Chapter 12: Index

A

abbreviations and acronyms 11-1
 aesthetics *See* visual resources
 agency coordination 8-1
 air quality
 current conditions 3-26
 future impacts 4-38
 build alternatives 4-42
 cumulative 4-46
 emissions from construction 4-39
 emissions from operation 4-40
 mitigation 4-45, 4-125
 No-Build Alternative 4-41
 major air pollutants in the study area 3-26, 4-38
 modeling methods 4-42
 National Ambient Air Quality Standards (NAAQS) 3-27
 airports
 current conditions 1-11
 St. George replacement airport S-1, 1-2, 1-11, 1-20, 2-20, 4-41
 cumulative noise impacts 4-57
 alternatives
 alignment options considered 2-17
 comparison of environmental impacts (summary) S-6, 2-28
 development process S-1, 2-1, 2-14, 2-19
 not studied in detail
 arterial roads 2-1
 public transit 2-3
 transportation management strategies 2-2
 studied in detail
 2800 West Alternative S-3, S-5, 2-26, 2-33
 3400 West Alternative S-3, S-5, 2-25, 2-33
 4300 West Alternative S-3, S-4, 2-23, 2-32
 No-Build Alternative S-2, S-3, 2-21, 2-32
 traffic modeling 2-4
 ambulance services *See* emergency services
 Anasazi Mountain Men 3-18, 4-28, 4-111

archaeological sites
 current conditions 3-57
 future impacts 4-101, 5-4
 2800 West Alternative 4-103
 3400 West Alternative 4-103
 4300 West Alternative 4-102
 cumulative 4-105
 mitigation 4-103
 No-Build Alternative 4-102

B

bald eagle
 current conditions 3-52
 future impacts 4-83, 4-90, 4-91
 mitigation 4-97, 4-127
 bearclaw poppy
 current conditions 3-51
 future impacts
 build alternatives 4-87
 cumulative 4-98
 mitigation 4-98, 4-126
 No-Build Alternative 4-87
 bicycle trails *See* trail systems
 Bluff Street, description of 1-8
 Bryce Canyon National Park 3-30
 bus service *See* public transit

C

carbon monoxide *See* air quality
 churches
 current conditions 3-14
 future impacts
 build alternatives 4-22
 No-Build Alternative 4-21
 comments, public 8-1
 construction impacts 4-116
 build alternatives 4-116
 mitigation 4-118, 4-127
 No-Build Alternative 4-116

cultural resources
 current conditions 3-57
 future impacts 4-101
 2800 West Alternative 4-103
 3400 West Alternative 4-103
 4300 West Alternative 4-102
 cumulative 4-105
 mitigation 4-103, 4-127
 No-Build Alternative 4-102

cumulative impacts
 air quality 4-46
 cultural resources 4-105
 definition 4-2
 land use 4-9
 noise 4-55
 threatened and endangered species 4-98
 wildlife habitat 4-78

D

demographics *See* population

desert tortoise
 current conditions 3-52
 future impacts 4-93
 cumulative 4-100
 mitigation 4-98, 4-126

displacements *See* relocation

distribution list 7-1

dry washes
 current conditions 3-36
 future impacts
 build alternatives 4-68
 No-Build Alternative 4-67

E

economics
 current conditions 3-20
 future impacts 4-32
 local 4-34
 regional 4-32

emergency services
 current conditions 3-15
 future impacts 4-22

emissions *See* air quality

employment
 current conditions 3-20
 projected growth 1-18

endangered species *See* threatened and endangered species

energy
 efficiency measures 6-11
 future impacts, construction-related
 build alternatives 4-115
 No-Build Alternative 4-115
 future impacts, direct 4-114
 build alternatives 4-115
 No-Build Alternative 4-115
 usage 6-11

environmental impacts 4-1
 comparison of alternatives (summary) S-6, 2-28

environmental justice populations
 current conditions 3-9
 future impacts
 build alternatives 4-18
 No-Build Alternative 4-17

equestrian trails *See* trail systems

F

farmland
 current conditions 3-5
 future impacts 4-11
 build alternatives 4-12, 4-13, 4-14
 mitigation 4-13, 4-14, 4-17
 No-Build Alternative 4-11, 4-13, 4-14

fire protection services *See* emergency services

fish
 current conditions 3-45
 future impacts 4-92
 mitigation 4-97

floodplains
 current conditions 3-46
 future impacts 4-80
 build alternatives 4-81
 No-Build Alternative 4-80

G

glossary 11-1

golden eagle
 current conditions 3-46
 future impacts
 2800 West Alternative 4-74
 mitigation 4-74, 4-125
 No-Build Alternative 4-73

groundwater
 current conditions 3-40
 future impacts 4-64
 build alternatives 4-65
 No-Build Alternative 4-64

H

- habitat *See also* wildlife
 - current conditions 3-44
 - future impacts
 - 2800 West Alternative 4-72
 - 3400 West Alternative 4-72
 - 4300 West Alternative 4-70
 - mitigation 4-72, 4-125
 - No-Build Alternative 4-70
- hazardous waste sites
 - current conditions 3-60
 - future impacts 4-107
 - 2800 West Alternative 4-108
 - 3400 West Alternative 4-108
 - 4300 West Alternative 4-108
 - mitigation 4-108, 4-127
 - No-Build Alternative 4-107
- highway patrol services *See* emergency services
- historic sites
 - current conditions 3-57
 - future impacts 4-101, 5-4
 - 2800 West Alternative 4-103
 - 3400 West Alternative 4-103
 - 4300 West Alternative 4-102
 - cumulative 4-105
 - mitigation 4-103
 - No-Build Alternative 4-102
- Holmgren milkvetch
 - current conditions 3-51
 - future impacts
 - build alternatives 4-88
 - cumulative 4-99
 - mitigation 4-89, 4-126
 - No-Build Alternative 4-87
- hospitals
 - current conditions 3-14
 - future impacts
 - build alternatives 4-22
 - No-Build Alternative 4-21
- households
 - projected growth 1-17, 6-2

I

- I-15, description of 1-7
- indirect effects, definition 4-1
- induced demand 2-11
- infrastructure costs 6-9
- invasive plants 4-72
- irreversible and irretrievable commitment of resources 4-119

J

- joint development 3-24, 4-36

K

- key observation points
 - current conditions 3-61
 - future impacts 4-110, 4-111, 4-112

L

- land use
 - conventional vs. compact development 6-4
 - current conditions 3-1
 - future impacts 4-3
 - 2800 West Alternative 4-7
 - 3400 West Alternative 4-7
 - 4300 West Alternative 4-5
 - consistency with plans and policies 4-7
 - cumulative 4-9
 - No-Build Alternative 4-4
 - smart growth planning initiatives 6-14
- latent demand 2-11
- level of service 1-12
 - categories 1-13
 - current conditions 1-14
 - definition 1-12
 - future projections 1-20, 2-6
 - planning goals 1-13
- list of preparers 10-1
- LOS *See* level of service
- low-income populations
 - current conditions 3-11
 - future impacts
 - build alternatives 4-18
 - mitigation 4-19
 - No-Build Alternative 4-17

M

- mass transit *See* public transit
- meetings, public 8-4
- minority populations
 - current conditions 3-10
 - future impacts
 - build alternatives 4-18
 - mitigation 4-19
 - No-Build Alternative 4-17

mitigation 4-123
 air quality 4-45, 4-125
 construction 4-118, 4-127
 cultural resources 4-103, 4-127
 endangered plants 4-98, 4-126
 endangered wildlife 4-97, 4-126
 environmental justice populations 4-19, 4-124
 farmland 4-13, 4-14, 4-17, 4-124
 hazardous waste sites 4-108, 4-127
 noise 4-53, 4-125
 paleontological resources 4-104, 4-127
 relocations 4-31, 4-124
 Sections 4(f)/6(f) properties 4-128
 surface water quality 4-64, 4-125
 trail systems 4-29, 4-37, 4-124
 visual resources 4-114, 4-127
 wells 4-66, 4-125
 wildlife habitat 4-72, 4-74, 4-125

N

National Ambient Air Quality Standards (NAAQS) 3-27
Native American involvement 3-58
neighborhoods and communities
 current conditions 3-13
 future impacts
 build alternatives 4-20
 No-Build Alternative 4-19
nitrogen oxides *See* air quality
noise
 current conditions 3-31
 examples of noise levels 3-32
 FHWA noise standards 3-32
 future impacts 4-48
 2800 West Alternative 4-50
 3400 West Alternative 4-50
 4300 West Alternative 4-50
 cumulative 4-55
 mitigation 4-53, 4-125
 No-Build Alternative 4-49
 modeling results 4-51, 4-54, 4-55
 Utah state guidelines 3-33

O

ozone *See* air quality

P

paleontological sites
 current conditions 3-57
 future impacts 4-103
 2800 West Alternative 4-104
 3400 West Alternative 4-104
 4300 West Alternative 4-104
 mitigation 4-104, 4-127
 No-Build Alternative 4-104
particulate matter *See* air quality
pedestrian trails *See* trail systems
permits and clearances 4-119
plants
 current conditions 3-44
 future impacts 4-87
 invasive species 4-72
police services *See* emergency services
population *See also* environmental justice
 populations, low-income populations, minority
 populations, senior citizens
 current conditions 3-8
 projected growth 1-16, 6-2
 smart growth development scenarios 6-13
preparers of this EIS 10-1
proposed action, description of S-1, 1-2
public involvement 8-4
public transit 1-9, 1-11, 2-3
 bus service 1-10, 2-3
 rail 2-3
purpose of and need for the project 1-3, 1-23

Q

quality of life
 current conditions 3-16
 future impacts
 build alternatives 4-25
 No-Build Alternative 4-24

R

rail transit *See* public transit
recreation resources
 current conditions 3-17
 future impacts
 2800 West Alternative 4-29
 3400 West Alternative 4-29
 4300 West Alternative 4-28
 mitigation 4-29
 No-Build Alternative 4-27

Red Cliffs Desert Reserve
 as a limit to growth 2-5, 3-4
 as desert tortoise habitat S-1, 2-5, 3-52, 4-70, 4-93, 4-101
 connecting trail systems 3-25
 referenced works 9-1
 relocation
 farms 4-31
 mitigation 4-31
 policies 3-20
 residences 4-30
 summary 4-32
 roadway
 current system 1-7
 deficiencies 1-15
 future projections 4-2
 safety 1-15, 3-16
 future impacts 4-26

S

Sand Hollow Recreation Area 3-17, 4-29, 5-3
 scenic rivers 3-64
 schools
 current conditions 3-14
 future impacts
 build alternatives 4-22
 No-Build Alternative 4-21
 Sections 4(f)/6(f) properties 5-1
 mitigation 4-128
 senior citizens
 current conditions 3-12
 future impacts
 build alternatives 4-18
 mitigation 4-19
 No-Build Alternative 4-17
 vulnerabilities of 3-13
 short-term uses versus long-term productivity 4-118
 smart growth 6-1
 development scenarios 6-13
 energy usage 6-11
 implementation measures 6-16
 infrastructure costs 6-9
 land use 6-4, 6-5
 local planning initiatives 6-14
 transportation efficiency 6-12
 water usage 6-7
 social environment
 current conditions 3-7
 future impacts 4-17
 SR 9, description of 1-8
 St. George Boulevard, description of 1-8

surface water
 current conditions 3-36
 future impacts 4-59
 2800 West Alternative 4-64
 3400 West Alternative 4-64
 4300 West Alternative 4-60
 mitigation 4-64, 4-125
 No-Build Alternative 4-59

T

tax base 3-23
 threatened and endangered species 3-48, 4-82
 birds
 current conditions 3-52, 3-53
 future impacts 4-90
 mitigation 4-97, 4-125, 4-127
 current conditions 3-48
 federal definitions 3-51
 federally listed species in the project area 3-52
 fish
 current conditions 3-53, 3-55
 future impacts 4-90, 4-92
 mitigation 4-97, 4-126
 future impacts 4-82
 cumulative 4-98
 mitigation 4-97
 mammals
 current conditions 3-56
 future impacts 4-90, 4-95
 plants
 current conditions 3-51
 future impacts 4-87
 mitigation 4-98, 4-126
 reptiles
 current conditions 3-52, 3-54
 future impacts 4-90, 4-93
 mitigation 4-98, 4-126
 state definitions 3-51
 state listed species in the project area 3-53
 traffic *See* level of service
 trail systems
 current conditions 1-12, 3-24
 existing trails 3-18, 4-28, 4-29
 future impacts 4-28, 5-5
 build alternatives 4-36, 4-37
 mitigation 4-37
 No-Build Alternative 4-36, 4-37
 proposed trails 3-25
 transportation demand 1-19, 2-5
 induced and latent demand 2-11

transportation efficiency from smart growth initiatives 6-12
transportation management strategies 1-10, 2-2
travel patterns
 current conditions 1-7, 3-14
 future impacts
 build alternatives 4-21
 No-Build Alternative 4-20

U

utilities, public
 current conditions 3-15
 future impacts 4-23

V

vegetation *See* habitat, plants
Virgin River
 current conditions 3-37
 future impacts
 2800 West Alternative 4-64
 3400 West Alternative 4-64
 4300 West Alternative 4-60
 mitigation 4-64

visual resources
 construction-related impacts
 build alternatives 4-110
 No-Build Alternative 4-109
 current conditions 3-61
 future impacts 4-109
 build alternatives 4-110, 4-114
 mitigation 4-114, 4-127
 No-Build Alternative 4-110
 visual impact ratings 4-113

volatile organic compounds *See* air quality

W

water bodies
 current conditions 3-44
 future impacts
 build alternatives 4-69
 No-Build Alternative 4-69
water consumption 6-7
 efficiency measures 6-7
 xeriscaping 6-8

water quality *See also* dry washes, groundwater, surface water, Virgin River, water bodies, waters of the U.S., wells, wetlands
 current conditions 3-35
 future impacts 4-58
 regulations 3-35
 typical contaminants from highway runoff 4-58

waters of the U.S.
 current conditions 3-42
 future impacts 4-67
 build alternatives 4-68
 No-Build Alternative 4-67

Web site for Southern Corridor project 8-7

wells
 current conditions 3-41
 future impacts 4-65
 2800 West Alternative 4-66
 3400 West Alternative 4-66
 4300 West Alternative 4-66
 mitigation 4-66, 4-125
 No-Build Alternative 4-65

wetlands
 current conditions 3-42
 future impacts 4-67
 build alternatives 4-68
 No-Build Alternative 4-67

wild and scenic rivers 3-64

wildlife *See also* habitat
 cumulative impacts 4-78
 current conditions 3-45
 future direct impacts
 2800 West Alternative 4-74
 3400 West Alternative 4-74
 4300 West Alternative 4-73
 mitigation 4-74
 No-Build Alternative 4-73
 future indirect impacts
 build alternatives 4-75
 No-Build Alternative 4-75

works cited 9-1

X

xeriscaping 6-8

Z

Zion National Park
 current air quality 3-29
 future impacts 4-47